

PRODUCT SOLUTION S0800 10% SULFURIC AC

### **Emergency Telephone Number**

Medical (312) 920-1510 (24 hours)\*

\*Effective November 11, 1989, the area code will be changed to 708.

### SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: SOLUTION S0800 10% SULFURIC AC DESCRIPTION: 10% sulfuric acid solution

NFPA 704M/HMIS RATING: 3/3 HEALTH 0/0 FLAMMABILITY 0/0 REACTIVITY 0 OTHER

O=Insignificant l=Slight 2=Moderate 3=High 4=Extreme

### SECTION 2 HAZARDOUS INGREDIENTS

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 14 for the nature of the hazard(s).

INGREDIENT(S)

CAS #

APPROX.%

Sulfuric acid

7664-93-9

10

### SECTION 3 PRECAUTIONARY LABEL INFORMATION

WARNING: Corrosive. Causes burns. Do not get in eyes, on skin or on clothing. Avoid breathing vapor. Do not take internally.

### SECTION 4 FIRST AID INFORMATION

EYES:

Immediately flush for at least 15 minutes while holding

eyelids open. Call a physician at once.

SKIN:

Immediately flush with water for at least 15 minutes.

For a large splash, flood body under a shower. Call a

physician at once.

INGESTION:

Do not induce vomiting. Give water. Call a physician.

INHALATION:

Remove to fresh air. Treat symptoms. Call a physician.

NOTE TO PHYSICIAN: No specific antidote is known. Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

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#### SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin

Corrosive to the eyes with possible permanent damage

depending on the length of exposure and on the first

aid action given.

Corrosive to the skin, possibly resulting in third SKIN CONTACT:

degree burns depending on the length of exposure and

on the first aid action given.

INGESTION:

EYE CONTACT:

Can be harmful.

SYMPTOMS OF EXPOSURE: A review of available data does not identify any symptoms from exposure.

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not identify any worsening of existing conditions.

#### 6 TOXICOLOGY INFORMATION SECTION

ACUTE TOXICITY STUDIES: Acute toxicity studies have not been conducted on this product, but toxicity studies of the ingredient(s) in Section 2 have been reviewed. The results are shown below.

ACUTE INHALATION TOXICITY (ALBINO RATS):  $LC_{50} = 347$  ppm (1-hour)

PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):

EYE IRRITATION INDEX DRAIZE RATING: 110/110.0 Corrosive

#### SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Colorless

FORM: Liquid

SOLUBILITY IN WATER:

Completely

pH (NEAT) =

Less than 1

FLASH POINT:

None

ASTM E-70

These physical properties are typical values for this product.

#### SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT: None

EXTINGUISHING MEDIA: Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARD: May evolve SOx under fire conditions.

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### SECTION 9 REACTIVITY INFORMATION

INCOMPATIBILITY: Avoid organic materials.

Avoid alkaline materials (eg. ammonia and its solutions, carbonates, sodium hydroxide (caustic), potassium hydroxide, calcium hydroxide (lime), cyanides, sulfides, hypochlorites, chlorites) which can generate heat with splattering or boiling and the release of toxic fumes.

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion SOx may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

### SECTION 10 PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION: If it is possible to generate significant levels of vapors or mists, a NIOSH approved or equivalent acid respirator is recommended.

VENTILATION: General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, mists or aerosols may be released.

PROTECTIVE EQUIPMENT: Wear gloves, apron and chemical splash goggles.

The availability of an eye wash fountain and safety shower is recommended.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

#### SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (708-920-1510)

SPILL CONTROL AND RECOVERY:

Cover spill with sodium bicarbonate. Mix and add water to form a slurry. Scoop up and dispose through waste treatment system.

DISPOSAL: If this product becomes a waste, it meets the criteria of a hazardous waste as defined under the Resources Conservation and Recovery Act (RCRA) 40 CFR 261. Hazardous Waste D002.

Acid solutions should be neutralized before being discharged to a sanitary sewer. Alternatively, an acid solution may be disposed into a waste treatment plant which has a pH control system in operation.

Empty product containers should be punctured, if plastic, and placed in

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#### SECTION 11 SPILL AND DISPOSAL INFORMATION

( CONTINUED )

the garbage collection container.

### SECTION 12 ENVIRONMENTAL INFORMATION

If released into the environment, see CERCLA in Section 14.

### SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE - SULFURIC ACID

CORROSIVE MATERIAL UN 1830

### SECTION 14 REGULATORY INFORMATION

The following regulations apply to this product.

#### FEDERAL REGULATIONS:

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200: Based on our hazard evaluation, the following ingredient in this product is hazardous and the reason is shown below.

Sulfuric acid - Corrosive

Sulfuric acid = TWA 1 mg/m<sup>3</sup> ACGIH/TLV

Sulfuric acid = TWA 1 mg/m<sup>3</sup> OSHA/PEL

### CERCLA/SUPERFUND, 40 CFR 117, 302:

This product contains sulfuric acid, a Reportable Quantity (RQ) substance and if 10,000 pounds of product are released, it requires notification to the NATIONAL RESPONSE CENTER, WASHINGTON, D. C. (1-800-424-8802).

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

## SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

This product contains sulfuric acid, which is listed in Appendix A and B as an Extremely Hazardous Substance. The statuatory threshold planning quantity for this substance is 1,000 pounds.

A release of 10,000 pounds of product will require a notification to your State Emergency Response Commission.

You may also be required to notify the NATIONAL RESPONSE CENTER

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## SECTION 14 REGULATORY INFORMATION

( CONTINUED )

- See CERCLA/SUPERFUND, above.

SECTIONS 311 and 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

XX Immediate (acute) health hazard

- -- Delayed (chronic) health hazard
- -- Fire hazard
- -- Sudden release of pressure hazard
- -- Reactive hazard

Under Section 311, submittal of MSDS's or a list of product names to the local emergency planning commission, state emergency response commission and local fire department is required after October 17, 1987 if you have:

- 10,000 pounds or more of a hazardous substance, or
- 500 pounds or the threshold planning quantity, whichever is less, of an extremely hazardous substance.

After October 17, 1989, MSDS(s), or a list of product names for all hazardous substances between zero (0) and 10,000 pounds, not previously reported, must be submitted.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):
This product contains the following ingredient(s), (with CAS # and % range) which appear(s) on the List of Toxic Chemicals.

Sulfuric acid

7664-93-9

10

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D: If this product becomes a waste, it does meet the criteria of a hazardous waste as defined under RCRA 40 CFR 261 (consult Section 11).

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311):
This product contains the following ingredient covered by the Clean Water Act:

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## SECTION 14 REGULATORY INFORMATION

( CONTINUED )

Sulfuric acid - Section 311

CLEAN AIR ACT, 40 CFR 60, SECTION 111, 40 CFR 61, SECTION 112: This product does not contain ingredients covered by the Clean Air Act.

### STATE REGULATIONS:

#### CALIFORNIA PROPOSITION 65:

None of the chemicals on the current Proposition 65 list are known to be present in this product.

#### MICHIGAN CRITICAL MATERIALS:

This product does not contain ingredients listed on the Michigan Critical Materials Register.

#### STATE RIGHT TO KNOW LAWS:

Regulated in those states using the TLV for sulfuric acid as a criteria for listing.

### SECTION 15 ADDITIONAL INFORMATION

None

### SECTION 16 USER'S RESPONSIBILITY

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

#### SECTION 17 BIBLIOGRAPHY

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### SECTION 17 BIBLIOGRAPHY

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PATTY'S INDUSTRIAL HYGIENE AND TOXICOLOGY, Clayton, G. D., Clayton, F. E., eds., John Wiley and Sons, N. Y., 3rd edition, Vol. 2 A-C, 1981.

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PREPARED BY: John J. Kasper, MSc., Manager Product Safety

DATE CHANGED: 08/03/89 DATE PRINTED: 11/11/89

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MATERIAL SAFETY DATA SHEET
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